



## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER FI	LING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.
08/099,257	07/29/93	HOEKMAN	E	47241USA7E
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ROBERT H. JO	RDAN	26/17/072.1	ART UNIT	PAPER NUMBER
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COUNSEL, P.O	BOX 334:	27 11 11 Out (1) 2 to 11 .	10 31 may 23	
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Care L.			DATE MAILED:	07/21/94
This is a communication from		perne of your application	to term	07721794
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			25-94	
This application has bee	n examined	Responsive to communication filed on 4	<i>27 1</i>	This action is made
			──── days fr	om the date of this letter.
		will cause the application to become abandon	ed. 35 U.S.C. 133	7
Pert 1 THE POUL OWING A	TTACHNENTYS\	ARE PART OF THIS ACTION: \$ OLd Color	tor dec. D	N. 1
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1. 🔯 Notice of Referen	ces Cited by Exami	Iner, PTO-892. 🗆 😘 🗫 🔁 Notic	o of Draftsman's P	stent Drawing Review, PTO
3. Notice of Art Cite	d by Applicant, PTC	0-1449. 4. L Notice	e of Informal Paten	t Application, PTO-152.
6. Information on Ho	w to Effect Drawing	) Changes, PTO-1474.	taly to the	1 . ; +1 :
Part II SUMMARY OF AC	TION	the state of the state		Tu 4
PBIT II SUMMARY OF AC		/ /2		****
1. Claims durtan	at the orghe	1/50 600 00 100 10 100 14	e see tal	are pending in the applica
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2. Claims and a	u ordes de	enter in the page not o	Superior to a	1 have been concelled
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3. Claims	e recession	<u>u f. s. s.s. bacidal dosti</u>	rittle .	are allowed.
4. DE Claims		1-13 peting rot		
Ciams	1176 /2 175	/		are rejected.
5. Claims	<u> </u>			are objected to.
6. Ctalms	<del>at as cout</del>	<del> </del>	e ampléct to ueatuich	on or election requirement.
7. This application has	been filed with info	rmal drawings under 37 C.F.R. 1.85 which are	acceptable for exar	nination purposes.
(A) (A)	o i selabi	1		
8. Formal drawings are	required in respon	se to this Office action.		
9. The corrected or suf	bstitute drawings ha	eve been received on	. Under 37	C.F.R. 1.84 these drawings
		see explanation or Notice of Draftsman's Patent		
. —				
		heet(s) of drawings, filed on niner (see explanation).	has (have) been	☐ approved by the
examiner, Li usap	proved by the exam	mer (see experience).		
11. The proposed drawt	ng correction, filed	, has been 🔲 approv	ed; 🛘 disapprove	d (see explanation).
49 D Antoniulantar	made of the cirim	has adoubly under 95 119 C 440. The smaller		
		for priority under 35 U.S.C. 119. The certified at no; filed on	copy has Libeen	received Lingt been recei
		, 1800 (11	·	
		condition for allowance except for formal matter	rs, prosecution as	to the merits is closed in
eccordance with the	practice under Ex p	parte Quayle, 1935 C.D. 11; 453 O.G. 213.		
44 🗆 04				
14. Other				

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1. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification is objected to under 35 U.S.C. § 112, first paragraph, as failing to provide an enabling disclosure.

There is no control circuitry, block diagrams and/or flowcharts provided in the specification and the drawings to explain the following: how the vehicle calculates a time after the vehicle exits from the detection area at which the vehicle will not influence the period of the oscillator signal, measuring the inductance in order to recognize an environmental factor or change unrelated to the inductive sensor, measuring the inductance in order to identify changes not caused by vehicles, and therefore recognize that mechanical difficulties requiring maintenance has occurred, and adjusting reference values to reflect slow changes caused by environmental factors.

Applicant is cautioned about the inclusion of new matter into the specification.

2. Claims 1-13 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the

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specification.

3. Claims 1-10 and 13 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 1-2 and 5, the claim language "after vehicle exit from" of a said vehicle" does not make coherent sense. It should read --after the vehicle exits from--.

As to claim 2, "the ratio" lacks antecedent basis.

As to claim 6, line 14, "the values" is indefinite. It should be defined with greater specificity.

As to claim 7, line 8, the phrase "same dummy sensor" is unclear. There appears to be only one dummy sensor (see claim 8). The phrase "environmental factor" is indefinite. It should be defined with greater specificity.

As to claim 8, the phrase "environmental change" is indefinite. It should be defined with greater specificity.

As to claim 9, the preamble does not make coherent sense. It should be revised carefully. On lines 14-16, the phrase "in a predetermined range outside a threshold rate of change" does not make coherent sense.

As to claim 10, "the rate of frequency change" and "the sensor drive oscillator signal" lack antecedent basis.

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As to claim 13, the phrase "environmental factors" is indefinite. It should be defined with greater specificity. "The oscillator period" lacks antecedent basis.

Claims 2-4 are rejected as being dependent upon a rejected claim.

4. Claims 1-13 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-17 of U.S. Patent No. 5,278,555. Although the conflicting claims are not identical, they are not patentably distinct from each other because although '555 fails to explicitly claim all the steps of calculating of the claimed invention, which include, the time after the vehicle exits from the detection area "at which the vehicle will not influence the period of the oscillator signal", measuring the inductance in order to recognize an environmental factor or change unrelated to the inductive sensor, measuring the inductance in order to identify changes not caused by vehicles thereby recognizing mechanical difficulties, and adjusting reference values to reflect slow changes caused by environmental factors, all of the above steps are performed and calculated by the same processor 20 as claimed by '555. Although the claimed invention and '555 have various calculations performed by the same processor, both the claimed invention and '555 include the same structural elements,

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which include the sensors and circuits used to provide the necessary information to the processor. Therefore, one of ordinary skill in the art at the time of the invention would have readily recognized that the programming of a processor to perform various functions does not constitute an inventive step but an obvious design choice.

- 5. The obviousness-type double patenting rejection is a judicially established doctrine based upon public policy and is primarily intended to prevent prolongation of the patent term by prohibiting claims in a second patent not patentably distinct from claims in a first patent. In re Vogel, 164 USPQ 619 (CCPA 1970). A timely filed terminal disclaimer in compliance with 37 C.F.R. § 1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. § 1.78(d).
- 6. Applicant's arguments with respect to claims 1-13 have been considered but are deemed to be moot in view of the new grounds of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Lefkowitz whose telephone number is (703) 305-4816. The examiner can normally be reached on Monday-Thursday from 8:00AM-5:30PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Peng, can be reached on (703) 305-4392. The fax phone number for this Group is (703) 305-9508.

Any inquiry of a general nature or relating to the status of

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this application should be directed to the Group receptionist whose telephone number is (703) 305-4750.

Edward Lefkowitz July 13, 1994 BRENT SWARTHOUT PATENT EXAMINER GROUP 2600

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